

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> SELECT E.Ename, E.Sal, E.Deptno, El.SalAvg
2  FROM Emp E,
3  (
4  SELECT Deptno, AVG(Sal) SalAvg
5  FROM Emp
6  GROUP BY Deptno
7  ) El --Virtual Table OR Virtual Data Source OR Virtual Object OR
Correlation Object
8  WHERE E.Deptno = El.Deptno;
```

ENAME	SAL	DEPTNO	SALAVG
WARD	1250	30	1566.66667
JAMES	950	30	1566.66667
TURNER	1500	30	1566.66667
ALLEN	1600	30	1566.66667
MARTIN	1250	30	1566.66667
BLAKE	2850	30	1566.66667
ADAMS	1100	20	2175
SCOTT	3000	20	2175
SMITH	800	20	2175
FORD	3000	20	2175
JONES	2975	20	2175
MILLER	1300	10	2916.66667
CLARK	2450	10	2916.66667
KING	5000	10	2916.66667

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT E.Ename, E.Sal, E.Deptno
2  FROM Emp E,
3  WHERE (Deptno, Sal) >
4  (
5  SELECT Deptno, AVG(Sal)
6  FROM Emp
7  GROUP BY Deptno
8  )
9*/
```

SQL> /

WHERE (Deptno, Sal) >

*

ERROR at line 3:

ORA-00903: invalid table name

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SQL> ED

Wrote file afiedt.buf

```
1  SELECT E.Ename, E.Sal, E.Deptno
2  FROM Emp E,
3  WHERE (Deptno, Sal) >
4         (
5         SELECT Deptno, AVG(Sal)
6         FROM Emp
7         GROUP BY Deptno
8*        )
```

SQL> /

WHERE (Deptno, Sal) >

*

ERROR at line 3:

ORA-00903: invalid table name

SQL> ED

Wrote file afiedt.buf

```
1  SELECT E.Ename, E.Sal, E.Deptno
2  FROM Emp E
3  WHERE (Deptno, Sal) >
4         (
5         SELECT Deptno, AVG(Sal)
6         FROM Emp
7         GROUP BY Deptno
8*        )
```

SQL> /

WHERE (Deptno, Sal) >

*

ERROR at line 3:

ORA-01796: this operator cannot be used with lists

SQL> ED

Wrote file afiedt.buf

```
1  SELECT E.Ename, E.Sal, E.Deptno
2  FROM Emp E
3  WHERE (Deptno, Sal) >ALL
4         (
5         SELECT Deptno, AVG(Sal)
6         FROM Emp
7         GROUP BY Deptno
```

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```
8*      )
SQL> /
WHERE (Deptno, Sal) >ALL
      *
```

ERROR at line 3:
ORA-01796: this operator cannot be used with lists

```
SQL> SELECT E.Ename, E.Sal, E.Deptno, E1.SalAvg
2  FROM Emp E,
3  (
4  SELECT Deptno, AVG(Sal) SalAvg
5  FROM Emp
6  GROUP BY Deptno
7  ) E1 --Virtual Table OR Virtual Data Source OR Virtual Object OR
Correlation Object
8  WHERE E.Deptno = E1.Deptno AND
9  E.Sal > E1.SalAvg;
```

ENAME	SAL	DEPTNO	SALAVG
ALLEN	1600	30	1566.66667
BLAKE	2850	30	1566.66667
SCOTT	3000	20	2175
FORD	3000	20	2175
JONES	2975	20	2175
KING	5000	10	2916.66667

6 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
2  E.Ename,
3  E.Sal,
4  E.Deptno,
5  ROUND(E1.SalAvg, 2) DeptAvgSal,
6  ROUND(E.Sal - E1.SalAvg) DiffSalAvg
7  FROM Emp E,
8  (
9  SELECT Deptno, AVG(Sal) SalAvg
10 FROM Emp
11 GROUP BY Deptno
12 ) E1
13 WHERE E.Deptno = E1.Deptno
14 ORDER BY Deptno
15 /
```

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```
.....
ENAME          SAL      DEPTNO DEPTAVGSAL DIFFSALAVG
-----
KING            5000         10      2916.67      2083
CLARK           2450         10      2916.67      -467
MILLER          1300         10      2916.67     -1617
JONES           2975         20        2175         800
FORD            3000         20        2175         825
SMITH           800          20        2175     -1375
SCOTT           3000         20        2175         825
ADAMS           1100         20        2175     -1075
BLAKE           2850         30      1566.67      1283
MARTIN          1250         30      1566.67      -317
ALLEN           1600         30      1566.67         33
TURNER          1500         30      1566.67        -67
JAMES           950          30      1566.67     -617
WARD            1250         30      1566.67     -317
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT
  2  E.Ename,
  3  E.Sal,
  4  E.Deptno,
  5  E1.SalSum
  6  FROM Emp E,
  7  (
  8  SELECT Deptno, SUM(Sal) SalSUM
  9  FROM Emp
 10  GROUP BY Deptno
 11  ) E1
 12 WHERE E.Deptno = E1.Deptno
 13 ORDER BY Deptno;
```

```
ENAME          SAL      DEPTNO  SALSUM
-----
KING            5000         10      8750
CLARK           2450         10      8750
MILLER          1300         10      8750
JONES           2975         20     10875
FORD            3000         20     10875
SMITH           800          20     10875
SCOTT           3000         20     10875
ADAMS           1100         20     10875
BLAKE           2850         30      9400
MARTIN          1250         30      9400
ALLEN           1600         30      9400
```

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```
.....
TURNER          1500          30          9400
JAMES           950          30          9400
WARD            1250          30          9400
```

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  E.Ename,
3  E.Sal,
4  E.Deptno,
5  El.SalSum,
6  El.SalAvg,
7  El.Staff
8  FROM Emp E,
9  (
10 SELECT
11  Deptno,
12  SUM(Sal) SalSUM,
13  AVG(Sal) SalAvg,
14  COUNT(*) Staff
15  FROM Emp
16  GROUP BY Deptno
17  ) El
18 WHERE E.Deptno = El.Deptno
19* ORDER BY Deptno
SQL> /
```

ENAME	SAL	DEPTNO	SALSUM	SALAVG	STAFF
KING	5000	10	8750	2916.66667	3
CLARK	2450	10	8750	2916.66667	3
MILLER	1300	10	8750	2916.66667	3
JONES	2975	20	10875	2175	5
FORD	3000	20	10875	2175	5
SMITH	800	20	10875	2175	5
SCOTT	3000	20	10875	2175	5
ADAMS	1100	20	10875	2175	5
BLAKE	2850	30	9400	1566.66667	6
MARTIN	1250	30	9400	1566.66667	6
ALLEN	1600	30	9400	1566.66667	6
TURNER	1500	30	9400	1566.66667	6
JAMES	950	30	9400	1566.66667	6
WARD	1250	30	9400	1566.66667	6

14 rows selected.

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```
SQL> SELECT
  2  T1.Deptno,
  3  Dname, Staff
  4  FROM Dept T1,
  5  (
  6  SELECT
  7  Deptno,
  8  COUNT(*) AS Staff
  9  FROM Emp
 10  GROUP BY Deptno
 11  ) T2
 12 WHERE T1.Deptno = T2.Deptno
 13 AND Staff >= 5;
```

DEPTNO	DNAME	STAFF
30	SALES	6
20	RESEARCH	5

SQL> ED
Wrote file afiedt.buf

```
 1  SELECT
 2  T1.Deptno,
 3  Dname,
 4  COUNT(*) Staff
 5  FROM Dept T1, Emp T2
 6  WHERE T1.Deptno = T2.Deptno
 7  GROUP BY T1.Deptno, Dname
 8*  HAVING COUNT(*) >= 5
```

SQL> /

DEPTNO	DNAME	STAFF
20	RESEARCH	5
30	SALES	6

SQL> SET AUTOTRACE ON EXPLAIN

```
SQL> SELECT
 2  T1.Deptno,
 3  Dname,
 4  COUNT(*) Staff
 5  FROM Dept T1, Emp T2
 6  WHERE T1.Deptno = T2.Deptno
 7  GROUP BY T1.Deptno, Dname
```

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```
8  HAVING COUNT(*) >= 5
9  /
```

DEPTNO	DNAME	STAFF
20	RESEARCH	5
30	SALES	6

Execution Plan

Plan hash value: 2286730561

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	490	8 (25)	00:00:01
* 1	FILTER					
2	HASH GROUP BY		14	490	8 (25)	00:00:01
* 3	HASH JOIN		14	490	7 (15)	00:00:01
4	TABLE ACCESS FULL	DEPT	4	88	3 (0)	00:00:01
5	TABLE ACCESS FULL	EMP	14	182	3 (0)	00:00:01

Predicate Information (identified by operation id):

```
1 - filter(COUNT(*)>=5)
3 - access("T1"."DEPTNO"="T2"."DEPTNO")
```

Note

- dynamic sampling used for this statement

```
SQL> SELECT
2   T1.Deptno,
3   Dname, Staff
4   FROM Dept T1,
```

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```
5      (  
6      SELECT  
7      Deptno,  
8      COUNT(*) AS Staff  
9      FROM Emp  
10     GROUP BY Deptno  
11     ) T2  
12 WHERE T1.Deptno = T2.Deptno  
13 AND Staff >= 5;
```

DEPTNO	DNAME	STAFF
30	SALES	6
20	RESEARCH	5

Execution Plan

Plan hash value: 1389389523

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	672	8 (25)	00:00:01
* 1	HASH JOIN		14	672	8 (25)	00:00:01
2	TABLE ACCESS FULL	DEPT	4	88	3 (0)	00:00:01
3	VIEW		14	364	4 (25)	00:00:01
* 4	FILTER					
5	HASH GROUP BY		14	182	4 (25)	00:00:01
6	TABLE ACCESS FULL	EMP	14	182	3 (0)	00:00:01

Predicate Information (identified by operation id):

```
1 - access("T1"."DEPTNO"="T2"."DEPTNO")  
4 - filter(COUNT(*)>=5)
```

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Note

- dynamic sampling used for this statement

SQL> cl scr

```
SQL> SELECT Deptno, SUM(Sal) SalSum
2  FROM Emp
3  GROUP BY Deptno;
```

DEPTNO	SALSUM
30	9400
20	10875
10	8750

Execution Plan

Plan hash value: 4067220884

Id	Operation	Name	Rows	Bytes	Cost (%CPU)	Time
0	SELECT STATEMENT		14	364	4 (25)	00:00:01
1	HASH GROUP BY		14	364	4 (25)	00:00:01
2	TABLE ACCESS FULL	EMP	14	364	3 (0)	00:00:01

Note

- dynamic sampling used for this statement

SQL> SELECT SUM(Sal) FROM Emp;

SUM(SAL)
29025

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Execution Plan

Plan hash value: 2083865914

```
--
| Id | Operation | Name | Rows | Bytes | Cost (%CPU) | Time |
|----|-----|-----|-----|-----|-----|-----|
--
| 0 | SELECT STATEMENT | | 1 | 13 | 3 (0) | 00:00:01 |
| 1 | SORT AGGREGATE | | 1 | 13 | | |
| 2 | TABLE ACCESS FULL | EMP | 14 | 182 | 3 (0) | 00:00:01 |
--
```

Note

- dynamic sampling used for this statement

```
SQL> SET AUTOTRACE OFF EXPLAIN
SQL> cl scr
```

```
SQL> SELECT
  2 Deptno,
  3 SUM(Sal),
  4 SUM(Sal) / Tot_Sal * 100 "Salary%"
  5 FROM Emp,
  6 (
  7 SELECT SUM(Sal) Tot_Sal
  8 FROM Emp
  9 )
 10 GROUP BY Deptno, Tot_Sal;
```

DEPTNO	SUM(SAL)	Salary%
10	8750	30.1464255
20	10875	37.4677003
30	9400	32.3858742

```
SQL> cl scr
```

```
SQL> SELECT Ename, Sal
  2 FROM Emp;
```

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ENAME	SAL
KING	5000
BLAKE	2850
CLARK	2450
JONES	2975
MARTIN	1250
ALLEN	1600
TURNER	1500
JAMES	950
WARD	1250
FORD	3000
SMITH	800
SCOTT	3000
ADAMS	1100
MILLER	1300

14 rows selected.

```
SQL> SELECT SUM(Sal) FROM Emp;
```

SUM(SAL)
29025

```
SQL> ED
```

Wrote file afiedt.buf

```
1  SELECT
2  Ename,
3  Sal,
4  TO_CHAR(((Sal / OrgSal) * 100), '09D99')||'%Share' "%Share"
5  FROM Emp,
6  (
7  SELECT SUM(Sal) OrgSal
8  FROM Emp
9* )
SQL> COL "%Share" FORMAT A10
SQL> R
1  SELECT
2  Ename,
3  Sal,
4  TO_CHAR(((Sal / OrgSal) * 100), '09D99')||'%Share' "%Share"
5  FROM Emp,
6  (
7  SELECT SUM(Sal) OrgSal
8  FROM Emp
9* )
```

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ENAME	SAL	%Share
KING	5000	17.23%Share

BLAKE	2850	09.82%Share
-------	------	-------------

CLARK	2450	08.44%Share
-------	------	-------------

JONES	2975	10.25%Share
-------	------	-------------

MARTIN	1250	04.31%Share
--------	------	-------------

ALLEN	1600	05.51%Share
-------	------	-------------

ENAME	SAL	%Share
-------	-----	--------

TURNER	1500	05.17%Share
--------	------	-------------

JAMES	950	03.27%Share
-------	-----	-------------

WARD	1250	04.31%Share
------	------	-------------

FORD	3000	10.34%Share
------	------	-------------

SMITH	800	02.76%Share
-------	-----	-------------

SCOTT	3000	10.34%Share
-------	------	-------------

ENAME	SAL	%Share
		re

ADAMS	1100	03.79%Share
-------	------	-------------

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```
MILLER          1300   04.48%Share
                re
```

14 rows selected.

```
SQL> COL "%Share" FORMAT A15
```

```
SQL> R
```

```
1  SELECT
2  Ename,
3  Sal,
4  TO_CHAR(((Sal / OrgSal) * 100), '09D99')||'%Share' "%Share"
5  FROM Emp,
6  (
7  SELECT SUM(Sal) OrgSal
8  FROM Emp
9* )
```

ENAME	SAL	%Share
KING	5000	17.23%Share
BLAKE	2850	09.82%Share
CLARK	2450	08.44%Share
JONES	2975	10.25%Share
MARTIN	1250	04.31%Share
ALLEN	1600	05.51%Share
TURNER	1500	05.17%Share
JAMES	950	03.27%Share
WARD	1250	04.31%Share
FORD	3000	10.34%Share
SMITH	800	02.76%Share
SCOTT	3000	10.34%Share
ADAMS	1100	03.79%Share
MILLER	1300	04.48%Share

14 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
2  Job,
3  SUM(Sal),
4  ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
5  FROM Emp,
6  (
7  SELECT SUM(Sal) Tot_Sal
8  FROM Emp
9  )
```

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```
10 GROUP BY Job, Tot_Sal;
```

JOB	SUM(SAL)	Salary%
PRESIDENT	5000	17.23
SALESMAN	5600	19.29
ANALYST	6000	20.67
MANAGER	8275	28.51
CLERK	4150	14.3

```
SQL> SELECT
  2 TO_CHAR(HireDate, 'YYYY') Year,
  3 SUM(Sal),
  4 ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
  5 FROM Emp,
  6 (
  7 SELECT SUM(Sal) Tot_Sal
  8 FROM Emp
  9 )
10 GROUP BY TO_CHAR(HireDate, 'YYYY'), Tot_Sal;
```

YEAR	SUM(SAL)	Salary%
1982	4300	14.81
1980	800	2.76
1981	22825	78.64
1983	1100	3.79

```
SQL> cl scr
```

```
SQL> SELECT
  2 TO_CHAR(HireDate, 'YYYY') Year,
  3 TO_CHAR(HireDate, 'Month') "Month",
  4 SUM(Sal),
  5 ROUND(SUM(Sal) / Tot_Sal * 100, 2) "Salary%"
  6 FROM Emp,
  7 (
  8 SELECT SUM(Sal) Tot_Sal
  9 FROM Emp
10 )
11 WHERE TO_CHAR(HireDate, 'YYYY') = &GiveYear
12 GROUP BY
13 TO_CHAR(HireDate, 'YYYY'),
14 TO_CHAR(HireDate, 'Month'), Tot_Sal;
Enter value for giveyear: 1981
```

YEAR	Month	SUM(SAL)	Salary%
------	-------	----------	---------

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1981 November	5000	17.23
1981 April	2975	10.25
1981 June	2450	8.44
1981 September	2750	9.47
1981 December	3950	13.61
1981 May	2850	9.82
1981 February	2850	9.82

7 rows selected.

SQL> cl scr

SQL> SELECT COUNT(*) FROM Emp;

COUNT(*)
14

SQL> SELECT COUNT(*) FROM Dept;

COUNT(*)
4

SQL> SELECT COUNT(*) FROM SalGrade;

COUNT(*)
5

SQL> cl scr

```
SQL> SELECT E.EmpCount, D.DeptCount, S.GradeCnt
  2 FROM
  3 (
  4 SELECT COUNT(*) EmpCount
  5 FROM Emp
  6 ) E,
  7 (
  8 SELECT COUNT(*) DeptCount
  9 FROM Dept
 10 ) D,
 11 (
 12 SELECT COUNT(*) GradeCnt
 13 FROM SalGrade
 14 ) S;
```

EMPCOUNT	DEPTCOUNT	GRADECNT
----------	-----------	----------

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```
-----
              14              4              5
SQL> SELECT
  2   E.EmpCount,
  3   D.DeptCount,
  4   S.GradeCnt,
  5   E.EmpCount + D.DeptCount + S.GradeCnt TotalRecCnt
  6 FROM
  7   (
  8     SELECT COUNT(*) EmpCount
  9     FROM Emp
 10   ) E,
 11   (
 12     SELECT COUNT(*) DeptCount
 13     FROM Dept
 14   ) D,
 15   (
 16     SELECT COUNT(*) GradeCnt
 17     FROM SalGrade
 18   ) S;
```

EMPCOUNT	DEPTCOUNT	GRADECNT	TOTALRECCNT
14	4	5	23

```
SQL> SELECT
  2   E.EmpCount,
  3   D.DeptCount,
  4   S.GradeCnt,
  5   E.EmpCount + D.DeptCount + S.GradeCnt TotalRecCnt,
  6   GREATEST(E.EmpCount, D.DeptCount, S.GradeCnt) HighRecinTab,
  7   LEAST(E.EmpCount, D.DeptCount, S.GradeCnt) LowRecinTab
  8 FROM
  9   (
 10     SELECT COUNT(*) EmpCount
 11     FROM Emp
 12   ) E,
 13   (
 14     SELECT COUNT(*) DeptCount
 15     FROM Dept
 16   ) D,
 17   (
 18     SELECT COUNT(*) GradeCnt
 19     FROM SalGrade
 20   ) S;
```

EMPCOUNT	DEPTCOUNT	GRADECNT	TOTALRECCNT	HIGHRECINTAB	LOWRECINTAB
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Spool File For Oracle Students Trained by Mr.Sathish Yellanki

```
-----
14              4              5              23              14              4
SQL> SELECT
  2  A.Deptno "Department Number",
  3  (A.NumEmp / B.TotalCount ) * 100 "%Employees",
  4  (A.SalSum / B.TotalSal ) * 100 "%Salary"
  5  FROM
  6  (
  7  SELECT
  8  Deptno,
  9  COUNT(*) NumEmp,
 10  SUM(Sal) SalSum
 11  FROM Emp
 12  GROUP BY Deptno
 13  ) A,
 14  (
 15  SELECT
 16  COUNT(*) TotalCount,
 17  SUM(Sal) TotalSal
 18  FROM Emp
 19  ) B;
```

Department Number	%Employees	%Salary
10	21.4285714	30.1464255
20	35.7142857	37.4677003
30	42.8571429	32.3858742

```
SQL> SPOOL OFF
```

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